For Utility/Design CIP/PCT Nati nal Original/Substitute/ Supplem ntal Declarati ns

### Rul 53(b) (37 C.F.R. § 1.53(b)) **COMBINED DECLARATION AND POWER OF ATTORNEY** FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No.: 98-39 C1

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject

matter which is claimed and for which a patent is sought on the invention entitled:					
METHOD AND APPARATUS FOR DETERMINING CARDIAC OUTPUT					
the specification of which (Check applicable Box(es)):  is attached hereto,  was filed on:  June 14, 2002  was filed as PCT International Application No. PCT/  was amended on:  June 14, 2002 (by Preliminary Amendment)			as U.S. Appln. No.:	10/172,271 on	
			dentified specification, include material to patentability as de	ling the claims, as amended by any amend fined in 37 C.F.R. § 1.56.	lment referred to
below any foreign applic	ation for patent or invento	r's certificate filed by me o	or my assignee disclosing the	inventor's certificate listed below and has subject matter claimed in this application filing date of this application.	
Prior Foreign Application	on(s)	Filed	Date First Laid Open	Dated Patented or	Priority Claimed
Number(s)	Country	(MM/DD/YY)	or Published	Granted	Yes No
I hereby claim the benefi	t under Title 35, United St	ates Code, § 119(e) of any	y United States provisional ap	plication(s) listed below.	
Number(s)		Filing Date (MM/DD/)	<b>(Y</b> )		
09/691,595		October 18, 2000		•	,
60/161,120		October 22, 1999			
disclosed in such prior a	listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filling date of each such prior application and the national or PCT international filling date of this application:  Application Number  Filling Date (MM/DD/YY)  Status (patented, pending, abandoned)				
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.  And I hereby appoint the following attorney(s) and/or agents(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Michael W. Haas, Reg. No. 35,174  Address all correspondence to Customer Number:					
	•	- 3		•	
(1) Inventor's Signature:				Date:	
Full Name: Eric W. Starr				Citizenship: USA	
Residence: City: Allison Park State: Pennsylvania Country: USA					,
Post Office Address: 3135 West Wind Drive, Allison Park, Pennsylvania, 15101, USA					
(2) Inventor's Signature: V Dernard Tennock				Date: V 12   8   2003	
Full Nam				Citizenship: USA	
Residence	e: City: Hilton Head	Island St	ate: South Carolina	Country: USA	
Post Office Addres	s: 1 Oyster Catcher, Hil	ton Head Island, South Ca	arolina 29928, USA	*	

(Additional inventors are being named on the supplemental additional inventor(s) sheet(s) RI-116-2 attached hereto)

Attorney Docket No.: 98-39 CI
Title: METHOD AND APPARATUS FOR DETERMINING
CARDIAC OUTPUT

#### **DECLARATION AND POWER OF ATTORNEY** (Continued)

### **ADDITIONAL INVENTORS**

(3) Inventor's Signature:		Date:				
Full Name: Mouhyieldin Kandis		Citizenship: USA				
Residence: City: Haledon	State: New Jersey	Country: USA				
Post Office Address: 14 Ford Road, Haledon, New Jersey, 0750						
(4) Inventor's Signature:		Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						
(5) Inventor's Signature:		Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						
(6) Inventor's Signature:		Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						
(7) Inventor's Signature:	•	Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						
(8) Inventor's Signature:	·	Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						
(9) Inventor's Signature:	•	Date:				
Full Name:		Citizenship:				
Residence: City:	State:	Country:				
Post Office Address:						

For Utility/Design CIP/PCT Nati nal Original/Substitute/ Supplemental Declarations

As a below named inventor, I hereby declare that:

## Rule 53(b) (37 C.F.R. § 1.53(b)) COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Atty. Docket No.: <u>98-39 C1</u>

Declarations IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I believe I am the original	address and citizenship at I, first and sole inventor (if and for which a patent is so	only one name is listed b	elow) or an original, first and	d joint inventor (i	f plural names are lis	ted below) of the	e subject
METHOD AND APP	ARATUS FOR DETE	RMINING CARDIAC	OUTPUT				
the specification of which (Check applicable Box(es)):  is attached hereto,  was filed on:  June 14, 2002  was filed as PCT International Application No. PCT/  was amended on:  June 14, 2002 (by Preliminary Amendment)							
above. I acknowledge the I hereby claim foreign pri below any foreign applica date (1) before that of the	e duty to disclose all information of the control o	nation known to me to be S.C. 119/365 of any forei 's certificate filed by me o writy is claimed, or (2) if n	dentified specification, inclued material to patentability as of gn application(s) for patent of my assignee disclosing the control of priority claimed, before the	defined in 37 C.F. or inventor's certife subject matter cle of filing date of thi	R. § 1.56.  Ricate listed below and laimed in this application.	d have also ident ation and having	tified a filing
Prior Foreign Application		Filed	Date First Laid Open	Dated Pater	nted or	Priority C	
Number(s)	Country	(MM/DD/YY)	or Published	Granted	· · ·	Yes	_ <u>No</u>
						<del>-         -                            </del>	$\dashv$
I hereby claim the benefit	t under Title 35, United St	ates Code, § 119(e) of any	y United States provisional a	pplication(s) liste	ed below.		
Number(s)		Filing Date (MM/DD/)	<b>(Y)</b>				
09/691,595		October 18, 2000					
60/161,120		October 22, 1999					
listed above or below and disclosed in such prior ar	I, if this is a continuation-i	n-part (CIP) application, the duty to disclose all in	ne indicated United States ap insofar as the subject matter formation known to me to be the national or PCT internation	disclosed and cla material to pater	aimed in this applicat ntability as defined in	tion is in additio	n to that
Application Number		Filing Date (MM/DD/YY)		Status (patented, pending, abandoned)			· ·
			t .				
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
And I hereby appoint the following attorney(s) and/or agents(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Michael W. Haas, Reg. No. 35,174							
Address all	correspondence to Custor	ner Number:	30031		-	·	
(1) Inventor's Signature: Vanc W				Date:	2/8/03		
Full Name: Eric W. Starr				Citizenship:	'USA'		
			ate: Pennsylvania		Country: USA		
Post Office Addres	s: 3135 West Wind Dri	ve, Allison Park, Pennsylv	vania, 15101, USA		,	···	<del></del>
(2) Inventor's Signature	•			Date:			
Full Name: Bernard Pennock				Citizenship:	USA		
Residence: City: Hilton Head Island State: South Carolina					Country: USA		
Post Office Address: 1 Oyster Catcher, Hilton Head Island, South Carolina 29928, USA							

(Additional inventors are being named on the supplemental additional inventor(s) sheet(s) RI-116-2 attached hereto)

Attorney Docket No.: 98-39 Cl
Title: METHOD AND APPARATUS FOR DETERMINING
CARDIAC OUTPUT

### **DECLARATION AND POWER OF ATTORNEY** (Continued) ADDITIONAL INVENTORS

(3) Inventor's Signature:		Date:
Full Name: Mouhyieldin Kandis		Citizenship: USA
Residence: City: Haledon	State: New Jersey	Country: USA
Post Office Address: 14 Ford Road, Haledon, New Jersey, 075	08, USA	
(4) Inventor's Signature:	·	Date:
Full Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:		
	····	
(5) Inventor's Signature:		Date:
Full Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:	· · · · · · · · · · · · · · · · · · ·	
(6) Inventor's Signature:		Date:
Fuli Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:	·	· · · · · · · · · · · · · · · · · · ·
(7) Inventor's Signature:		Date:
Full Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:		
(8) Inventor's Signature:		Date:
Full Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:		
(9) Inventor's Signature:		Date:
Full Name:		Citizenship:
Residence: City:	State:	Country:
Post Office Address:		
•		

For Utility/Design
CIP/PCT National
Original/Substitute/
Supplemental
Declarations

# Rul 53(b) (37 C.F.R. § 1.53(b)) COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No.: 98-39 C1

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APP	ARATUS FOR DETE	HMINING CARDI	AC OUTPUT	<del></del>			
the specification of which	(Check applicable Box(ex	s)):			•		
is attached		- <del></del> -					
was filed o			as U.S. Appln. No	: 10/172,271			
·· was filed a	s PCT International Appli	cation No. PCT/	· .	on			
was amend	led on: June 14, 2002	by Preliminary Amen	dment)	· ·		• .	
I hereby state that I have a	reviewed and understand the	he contents of the above	ve identified specification, include the material to patentability as	uding the claims, as a defined in 37 C.F.R.	mended by any amend § 1.56.	ment referred	to
			:		•		
below any foreign applica	tion for patent or inventor	's certificate filed by n	reign application(s) for patent ne or my assignee disclosing th if no priority claimed, before the	e subject matter claim	ed in this application	e also identifie and having a f	iling
			Date First Laid Open	Dated Patented		Priority Clai	imed
Prior Foreign Application		Filed	or Published	Granted	101	· · ·	No
Number(s)	Country	(MWDD/YY)	Of Published	Graned		<del>- iii</del>	<del>ii</del> 1
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L				<del></del>		<del></del>	
	under Title 35, United St	·	any United States provisional a	application(s) listed be	elow.		<del></del>
Number(s)	•	Filing Date (MM/D	DYY)				
09/691,595		October 18, 2000		•	• .		
60/161,120		October 22, 1999	<u> </u>	<u> </u>		<u>·</u>	
disclosed in such prior an	plications, I acknowledge	the duty to disclose al	on, insofar as the subject matte I information known to me to b Id the national or PCT internati	e material to patental onal filing date of thi	oility as defined in 37 ( s application:	C.F.R. § 1.56 v	which
Application Number		Filing Date (MM/D	D/YY)	Status (patented,	pending, abandoned	<u>1)</u>	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
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				•			
Address all	correspondence to Custon	ner Number:	30031	-			
71001000 4111							
			•			<u> </u>	<u> </u>
(1) Inventor's Signature:				Date:			
Full Name: Eric W. Starr				Citizenship: USA			
Residence: City: Allison Park State: Pennsylvania				Country: USA			
Post Office Address: 3135 West Wind Drive, Allison Park, Pennsylvania, 15101, USA							
2 OSC OFFICE A SOUTON			,				·
(2) Inventor's Signature:				Date:			
Full Name	e: Bernard Pennock			Citizenship: U	SA	<del></del> -	
Residence		Island	State: South Carolina		ountry: USA		
Post Office Address: 1 Oyster Catcher, Hilton Head Island, South Carolina 29928, USA					<del></del>		
1 331 SHOOTINGHO	Joseph Sandrick, Illi					<del></del>	

Attorney Docket No.: 98-39 C1
Title: METHOD AND APPARATUS FOR DETERMINING
CARDIAC OUTPUT

### **DECLARATION AND POWER OF ATTORNEY** (Continued) ADDITIONAL INVENTORS

(3) Inventor's Signature:	Morehyieldin	Kandis	Date: 12/13/03
Full Name:	Mouhyieldin Kandis		Citizenship: USA
Residence:	City: Haledon	State: New Jersey	Country: USA
Post Office Address:	14 Ford Road, Haledon, New Jersey, (	7508, USA	
(4) Inventor's Signature:			Date:
Full Name:			Citizenship:
Residence:	City:	State:	Country:
Post Office Address:			
			<b></b>
(5) Inventor's Signature:	·		Date:
Full Name:			Citizenship:
Residence:	City:	State:	Country:
Post Office Address:			
			T
(6) Inventor's Signature:			Date:
Full Name:			Citizenship:
Residence:	City:	State:	Country:
Post Office Address:			
<u> </u>			
(7) Inventor's Signature:			Date:
Full Name:			Citizenship:
Residence:	City:	State:	Country:
Post Office Address:			
<u> </u>			
(8) Inventor's Signature:			Date:
Full Name:	K-8 /		Citizenship:
Residence:	City:	State:	Country:
Post Office Address:		<u> </u>	
(9) Inventor's Signature:			Date:
Full Name:			Citizenship:
Residence:	City:	State:	Country:
Post Office Address:		<u>.</u>	